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November 10, 2004

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APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A
FILING DATE.

APPLICATION NUMBER: 10/691,893

FILING DATE: *October 23, 2003*

RELATED PCT APPLICATION NUMBER: PCT/US04/34289

Certified by

Jon W Dudas

Acting Under Secretary of Commerce
for Intellectual Property
and Acting Director of the U.S.
Patent and Trademark Office



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Approved for use through 10/31/2002. OMB 0651-0032
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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

| | |
|------------------------|---------------------------------|
| Attorney Docket No. | B100321 |
| First Inventor | ALVIN BLUM |
| Title | WORLD GLOBE WITH DETAIL DISPLAY |
| Express Mail Label No. | ERG1437231205 |

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

- Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
- Applicant claims small entity status.
See 37 CFR 1.27.
- Specification [Total Pages **6**]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
- Drawing(s) (35 U.S.C. 113) [Total Sheets **4**]
- Oath or Declaration [Total Pages **2**]
 - Newly executed (original or copy)
 - Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)
 - DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR
1.63(d)(2) and 1.33(b).
- Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

- CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
- Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
 - Computer Readable Form (CRF)
 - Specification Sequence Listing on:
 - CD-ROM or CD-R (2 copies); or
 - paper
 - Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

- Assignment Papers (cover sheet & document(s))
- 37 CFR 3.73(b) Statement Power of Attorney
(when there is an assignee)
- English Translation Document *(if applicable)*
- Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
- Preliminary Amendment
- Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
- Certified Copy of Priority Document(s)
(if foreign priority is claimed)
- Nonpublication Request under 35 U.S.C. 122
(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
- Other: **MAKE SPECIAL PETITION + DECLARATION**

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

Continuation Divisional Continuation-In-Part (CIP) of prior application No. _____

Prior application information: Examiner _____ Group Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation, or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

| | | | |
|---|-------------------------|-----------------------------------|---|
| <input checked="" type="checkbox"/> Customer Number or Bar Code Label | | | <input type="checkbox"/> or <input type="checkbox"/> Correspondence address below |
| Name | 27321 | | |
| Address | PATENT TRADEMARK OFFICE | | |
| City | State | Zip Code | |
| Country | Telephone | 954 4625006 | Fax |
| Name (Print/Type) | ALVIN S. BLUM | Registration No. (Attorney/Agent) | 30448 |
| Signature | Alvin S. Blum | | Date 10/23/03 |

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FEE TRANSMITTAL

for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)

385

Complete if Known

| | |
|----------------------|------------|
| Application Number | |
| Filing Date | |
| First Named Inventor | ALVIN BLUM |
| Examiner Name | |
| Art Unit | |
| Attorney Docket No. | B 100321 |

METHOD OF PAYMENT (check all that apply)

Check Credit card Money Order Other None

Deposit Account:

| | |
|------------------------|--|
| Deposit Account Number | |
| Deposit Account Name | |

The Director is authorized to: (check all that apply)

Charge fee(s) indicated below Credit any overpayments

Charge any additional fee(s) during the pendency of this application

Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

| Large Entity | Small Entity | Fee Code (\$) | Fee Code (\$) | Fee Description | Fee Paid |
|--------------|--------------|---------------|---------------|------------------------|----------|
| 1001 750 | 2001 375 | | | Utility filing fee | 385 |
| 1002 330 | 2002 165 | | | Design filing fee | |
| 1003 520 | 2003 260 | | | Plant filing fee | |
| 1004 750 | 2004 375 | | | Reissue filing fee | |
| 1005 160 | 2005 80 | | | Provisional filing fee | |
| SUBTOTAL (1) | | (\$) | | | |

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| Total Claims | Fee from Extra Claims below | | | Fee Paid | |
|--------------------|-----------------------------|--|--|----------|--|
| | -20** = | | | | |
| | -3** = | | | | |
| Independent Claims | | | | | |
| Multiple Dependent | | | | | |

| Large Entity | Small Entity | Fee Code (\$) | Fee Code (\$) | Fee Description |
|--------------|--------------|---------------|---------------|--|
| 1202 18 | 2202 9 | | | Claims in excess of 20 |
| 1201 84 | 2201 42 | | | Independent claims in excess of 3 |
| 1203 280 | 2203 140 | | | Multiple dependent claim, if not paid |
| 1204 84 | 2204 42 | | | ** Reissue independent claims over original patent |
| 1205 18 | 2205 9 | | | ** Reissue claims in excess of 20 and over original patent |
| SUBTOTAL (2) | | (\$) | | |

*or number previously paid, if greater. For Reissues, see above

3. ADDITIONAL FEES

Large Entity - Small Entity

| Fee Code (\$) | Fee Code (\$) | Fee Description | Fee Paid |
|---------------|---------------|--|----------|
| 1051 130 | 2051 65 | Surcharge - late filing fee or oath | |
| 1052 50 | 2052 25 | Surcharge - late provisional filing fee or cover sheet | |
| 1053 130 | 1053 130 | Non-English specification | |
| 1812 2,520 | 1812 2,520 | For filing a request for ex parte reexamination | |
| 1804 920* | 1804 920* | Requesting publication of SIR prior to Examiner action | |
| 1805 1,840* | 1805 1,840* | Requesting publication of SIR after Examiner action | |
| 1251 110 | 2251 55 | Extension for reply within first month | |
| 1252 410 | 2252 205 | Extension for reply within second month | |
| 1253 930 | 2253 465 | Extension for reply within third month | |
| 1254 1,450 | 2254 725 | Extension for reply within fourth month | |
| 1255 1,970 | 2255 985 | Extension for reply within fifth month | |
| 1401 320 | 2401 160 | Notice of Appeal | |
| 1402 320 | 2402 160 | Filing a brief in support of an appeal | |
| 1403 280 | 2403 140 | Request for oral hearing | |
| 1451 1,510 | 1451 1,510 | Petition to institute a public use proceeding | |
| 1452 110 | 2452 55 | Petition to revive - unavoidable | |
| 1453 1,300 | 2453 650 | Petition to revive - unintentional | |
| 1501 1,300 | 2501 650 | Utility issue fee (or reissue) | |
| 1502 470 | 2502 235 | Design issue fee | |
| 1503 630 | 2503 315 | Plant issue fee | |
| 1460 130 | 1460 130 | Petitions to the Commissioner | |
| 1807 50 | 1807 50 | Processing fee under 37 CFR 1.17(q) | |
| 1806 180 | 1806 180 | Submission of Information Disclosure Stmt | |
| 8021 40 | 8021 40 | Recording each patent assignment per property (times number of properties) | |
| 1809 750 | 2809 375 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1810 750 | 2810 375 | For each additional invention to be examined (37 CFR 1.129(b)). | |
| 1801 750 | 2801 375 | Request for Continued Examination (RCE) | |
| 1802 900 | 1802 900 | Request for expedited examination of a design application | |

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

(Complete if applicable)

| | | | | | |
|-------------------|---------------|-----------------------------------|--------|-----------|------------|
| Name (Print/Type) | ALVIN S. BLUM | Registration No. (Attorney/Agent) | 30,448 | Telephone | 9544625006 |
| Signature | Alvin S. Blum | | | Date | 10/23/03 |

WARNING: Information in this form may become public. Credit card information should not be included in this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**NONPUBLICATION REQUEST
UNDER
35 U.S.C. 122(b)(2)(B)(i)**

| | |
|------------------------|---------------------------------|
| First Named Inventor | ALVIN BLUM |
| Title | WORLD GLOBE WITH DETAIL DISPLAY |
| Attorney Docket Number | B100321 |

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

10/23/2003

Date



Signature

954 462 5006

Telephone number

ALVIN S. BLUM

Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application upon filing.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).

This collection of information is required by 37 CFR 1.213(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

WORLD GLOBE WITH DETAIL DISPLAY

This invention relates to geographic displays, and more particularly to a world globe with an accessory detailed display of a selected region of the globe.

BACKGROUND OF THE INVENTION

Spherical globes that have imprinted on their surface the map of the world are well known. They are generally provided with an axle through their north and south poles. They may be mounted on a base by the axle, so that they may be rotated for viewing a selected area. U S Patent #6,625,086 issued 9/23/2003 to Kim discloses a globe with a rotation sensor on the axle. A pointer indicates a longitude position at a particular time zone on the globe. The sensor feeds the rotation information into an electronic processor and a display indicates a major city in that time zone and also displays the current time in that time zone.

Navigational aids for providing maps in vehicles and on computers have detailed maps stored on a memory such as a computer disc. The information is retrieved by inputting some location data. This enables selection of particular map information from the memory to be displayed on a computer monitor or a small monitor, such as a battery operated liquid crystal display in a vehicle.

Globes can be imprinted with a great deal of geographic information. However, unless the world globe is very large, the details are not easily read. Because a globe is spherical, it is awkward and expensive to have a large one. It is much less awkward and costly to have detailed planar maps. They may also be more easily updated. Flat and folded maps are very useful, but they lack the perspective given by the globe.

SUMMARY OF THE INVENTION

It is accordingly an object of the invention to provide a world globe, with geographic features thereon, that rotates on an axle with the axle mounted on a base. The globe is not large enough to legibly carry all of the geographic and map information that the invention provides. Additional detailed information of a selected area of the globe is provided on a display attached to the globe either on the base or at another location. Detailed information, much more than can be imprinted even on a large globe, is stored on a memory such as, but not limited to, a compact disc. Input to the memory to select a detailed map of a particular area of the globe to be displayed on the display is provided by a longitudinal signal and a latitudinal signal. An arcuate

meridian element running from the south pole to the north pole slidably supports an indicator or reticle that may be moved north or south, and the globe rotated until the indicator or reticle is directly at the selected area. A rotary position sensor on the axle provides an east/west longitudinal signal, and a second sensor detecting the north-south location of the indicator or reticle on the meridian element provides the latitudinal signal. The two signals enable the system to select the appropriate map from the memory and to enable it to be displayed on the display. Another feature may enable the display of a more magnified map if desired.

These and other objects, features, and advantages of the invention will become more apparent when the detailed description is studied in conjunction with the drawings in which like elements are designated by like reference characters in the various drawing figures.

BRIEF DESCRIPTION OF THE DRAWINGS.

Fig. 1 is a front elevation view of the invention.

Fig. 2 is schematic representation of the invention.

Fig. 3 is a front elevation view of another embodiment of the invention.

Fig. 4 is front elevation view of the embodiment of Fig.3 with the display panel removed.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

Referring now to the drawing Figs. 1-2, a globe 18 of the invention includes a sphere 4 imprinted with geographic indicia 17 on its surface. The sphere is supported on an axle 2 that is attached to support base 1. The sphere rotates about an axis 3 through the north pole 6 and the south pole 7. A meridian member 5 extends between the two poles. An indicator 8 such as an arrow pointer is slidably mounted on the meridian member for north/south motion of the tip of the indicator on the sphere. By rotation of the sphere in the east/west direction and motion of the indicator in the north/south direction, a particular area of the earth is located. A signal 13 from a first sensor 10 sensing rotation of the sphere and therefor longitudinal information, and a signal 14 from the second sensor 11 sensing sliding position of the indicator and therefor latitudinal information of the selected area are fed to circuit 19. Circuit 19 selects a particular portion of the memory 12 corresponding to the selected area. That detailed map information 16 is displayed on the display 15. The memory 12 may be any of the memory media well known in the art. It may be easily replaced with updated information, or with another language. Control buttons 20 and 21 select low and high magnification map displays. Button 22 moves the display to an area east,

and button 23 moves the display to an area west. Button 25 moves to an area north, and button 26 moves to an area south. These functions are well known in the vehicle navigation and computer map display art. Button 24 displays the current time at the selected area. An internal clock 29 is set by positioning the indicator 8 at a location where the time is known, then entering the correct time using the hour button 27 and minute button 28. When moved to a different time zone, the system displays the time corrected to that time zone. Electric power is supplied through power cord 30.

Referring now to Figs. 3 and 4, another embodiment 18' of the invention is shown in which the display panel 15' is mounted on the base 1' to display a detailed map 16' and the time 31 at the location indicated by the cross hairs of the reticle 8'. The sphere 4' imprinted with geographic information 17' is mounted on an axle 2' at the south pole with a pivot 32 at the north pole. The sphere and axle rotate together. The axle is rotatably supported by the two bearings 33 within the base. A rotary position first sensor 10' sends a signal through wire 13' to the computer circuit 19' indicating the longitudinal position of the reticle. A meridian member 5' encircles the sphere and supports the pivot 32. The reticle is mounted on a circular element 34 that is concentric with meridian member 5' and that slides within a track on member 5'. A second sensor 11' engages the element 34 and rotates when reticle and element 34 move, sending a signal representative of the latitude of the reticle through wire 14' to the circuit 19'. The circuit 19' selects from the memory 12' a particular detailed map 16' of the selected area for display on the display 15'. A clock circuit 29' provides time for time display 31. Electric power is provided by battery 35.

While I have shown and described the preferred embodiments of my invention, it will be understood that the invention may be embodied otherwise than as herein specifically illustrated or described, and that certain changes in form and arrangement of parts and the specific manner of practicing the invention may be made within the underlying idea or principles of the invention.

WHAT IS CLAIMED IS:

1. A globe assembly for displaying features of the world comprising:
 - a) a base;
 - b) an axle on the base;
 - c) a sphere representative of the earth supported on the axle for rotation about an axis through the north and south poles;
 - d) a meridian member extending between the poles;
 - e) an indicator slidably mounted on the meridian member for movement in a north/south direction on the sphere;
 - f) a first sensor mounted so as to provide a longitudinal signal representative of the rotary position of the sphere relative to the base;
 - g) a second sensor mounted so as to provide a latitudinal signal representative of the position of the indicator on the meridian;
 - h) a memory operatively connected to the signals from the first and second sensors, the memory storing more detailed map information than is imprinted on the sphere; and
 - i) a display for displaying detailed map information selected from the memory representing the area indicated by the indicator.
2. The globe assembly according to claim 1 further comprising an internal clock and means for displaying time at the selected area.
3. A method of simultaneously displaying a spherical geographic representation of the world along with a more detailed display of an area selected from the spherical geographic representation, the method comprising:
 - a) providing:
 - i) a base;
 - ii) an axle on the base;
 - iii) a sphere representative of the earth supported on the axle for rotation about an axis through the north and south poles;
 - iv) a meridian member extending between the poles;
 - v) an indicator slidably mounted on the meridian member for movement in a north/south direction on the sphere;

- vi) a first sensor mounted so as to provide a longitudinal signal representative of the rotary position of the sphere relative to the base;
- vii) a second sensor mounted so as to provide a latitudinal signal representative of the position of the indicator on the meridian;
- viii) a memory operatively connected to the signals from the first and second sensors, the memory storing more detailed map information than is imprinted on the sphere; and
- ix) a display for displaying detailed map information selected from the memory representing the area indicated by the indicator;

- b) moving the indicator and rotating the sphere to select a particular area of interest; and
- c) displaying that area in greater detail on the display.

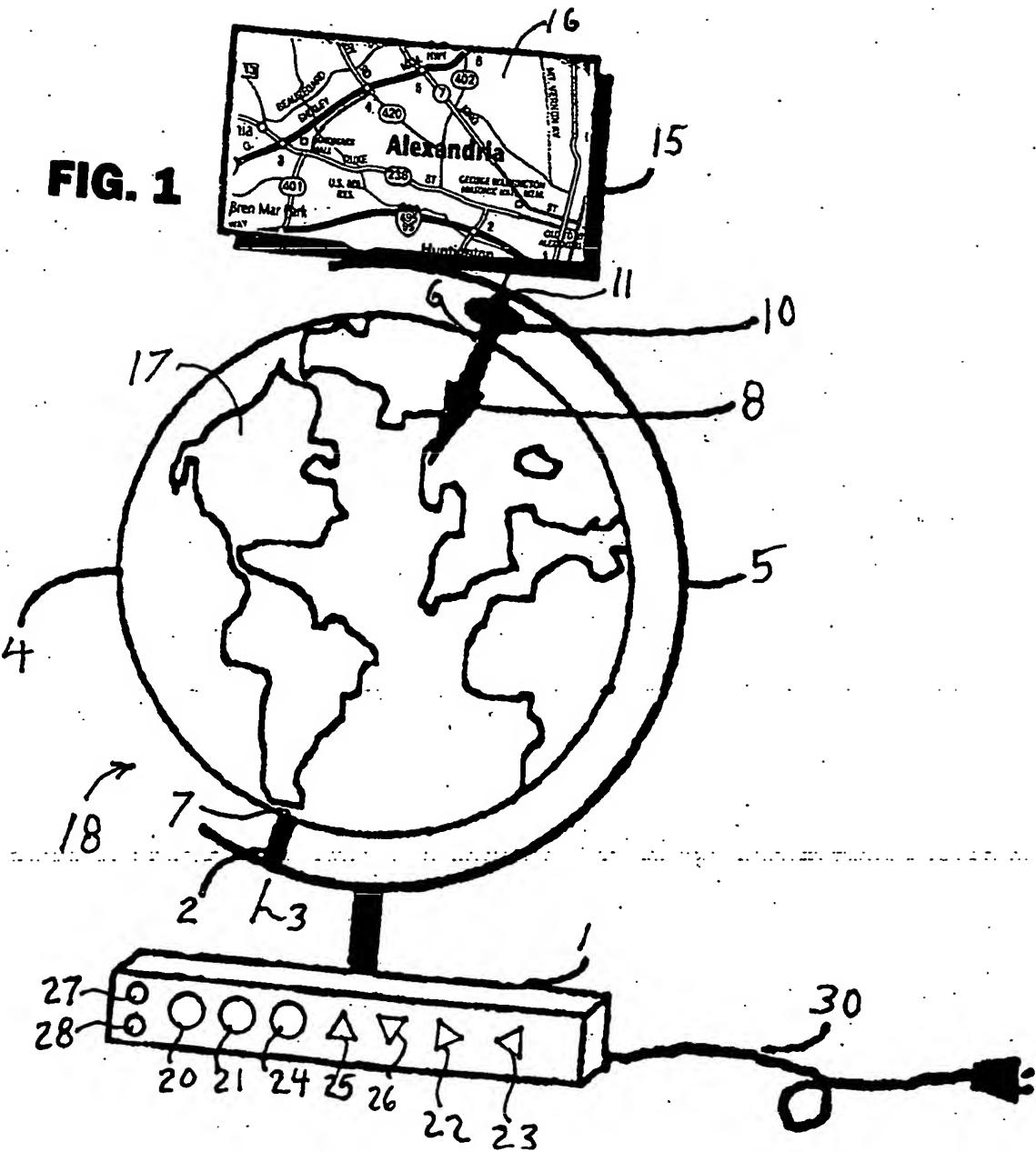
ABSTRACT OF THE DISCLOSURE

A spherical world globe with geographic features imprinted on its surface rotates on an axis through the poles. The sphere is not large enough to carry legible details of all areas. Greater details are stored in a memory such as a compact disc. An indicator on the sphere slides north and south. A sensor senses the north/south position of the indicator and sends a signal to a selection circuit connected to the memory. Another sensor connected to the rotation of the sphere sends an east/west signal to the memory. Using the two signals, the circuit finds the area corresponding to the area selected on the sphere and displays it on a display in greater detail than is visible on the sphere.

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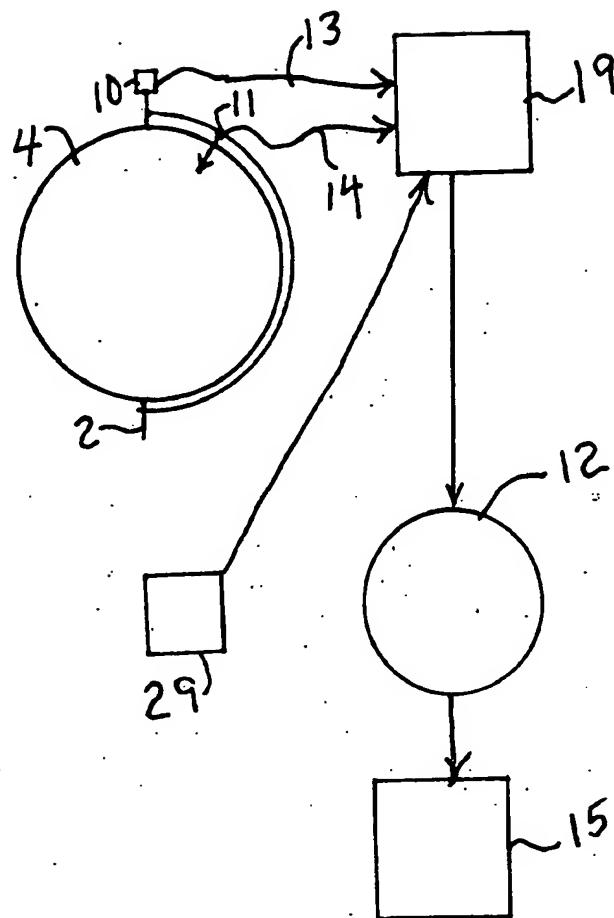
FIG. 1



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FIG. 2



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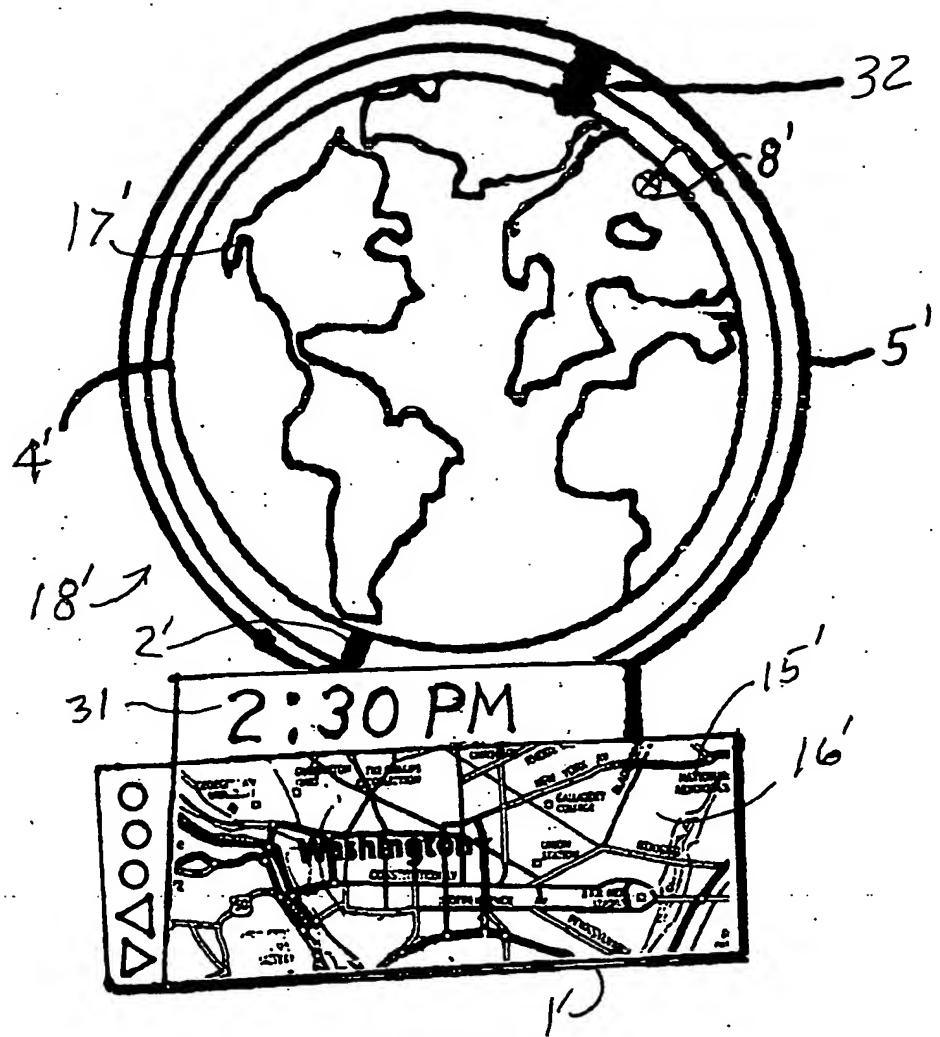
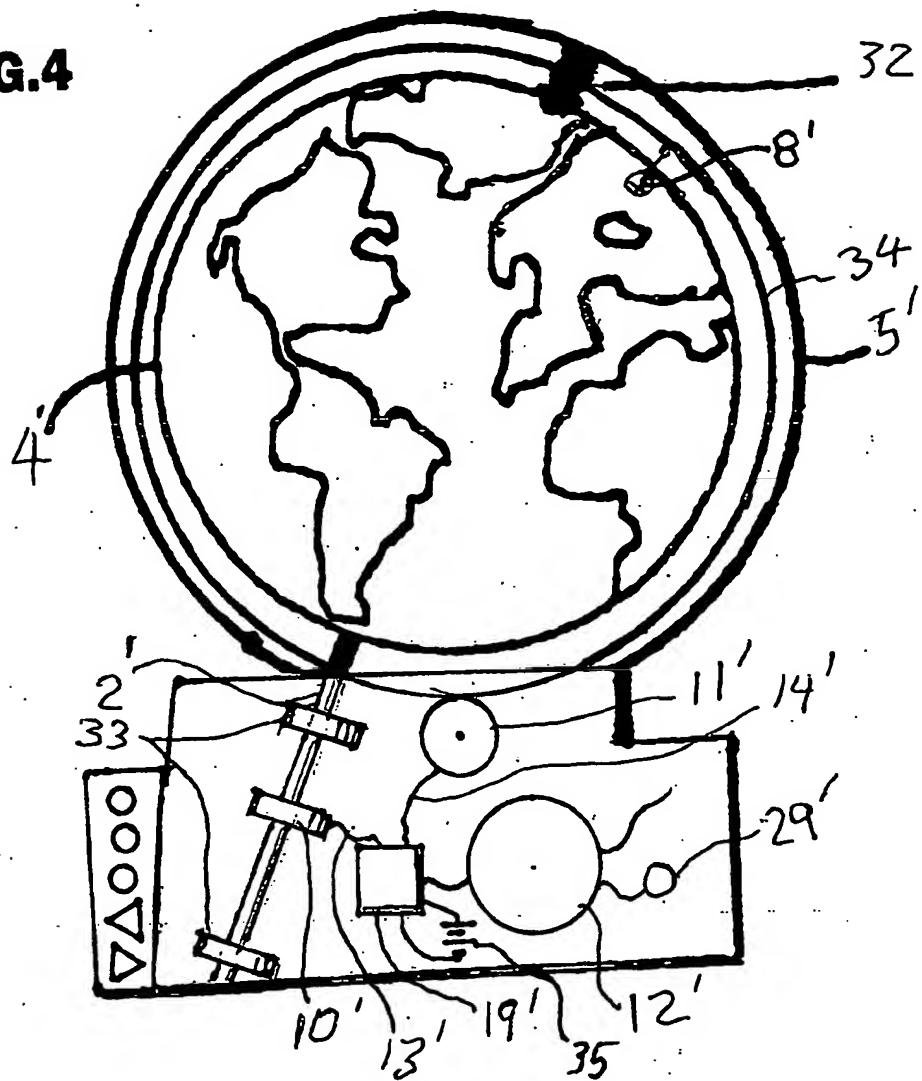


FIG. 3

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BLUM

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FIG.4



IN THE UNITED STATES PATENT AND TRADEMARKS OFFICE
IN RE PATENT APPLICATION OF:
ALVIN S. BLUM
DOCKET NO. B100321

ENTITLED: WORLD GLOBE WITH WITH DETAIL DISPLAY
COMMISSIONER OF PATENTS AND TRADEMARKS
ALEXANDRIA, VA22313-1450

DECLARATION UNDER 37C.R.F. SECTION 1.102(c)

I, ALVIN S. BLUM hereby declare that:

1. I am the inventor of the invention for which a patent application is being presented herewith.
2. I am over the age of 64 years. My birth date is 1/23/26, and I am 77 years old as of this date.
3. This Declaration is being submitted in support of the PETITION TO MAKE SPECIAL accompanying the above styled patent application.

The undersigned, ALVIN S. BLUM being hereby warned that any willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. section 1001, and that such willful false statements may jeopardize the validity of this application or any patent resulting, declares that the facts set forth in this declaration are true; all statements made of his own knowledge are true; and all statements made on information and belief are believed to be true.

Respectfully submitted,

Date 10/23/03

Alvin S. Blum

ALVIN S. BLUM

**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

Declaration Submitted with Initial Filing

OR

Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

| | |
|------------------------|---------------|
| Attorney Docket Number | B100321 |
| First Named Inventor | ALVIN S. BLUM |
| COMPLETE IF KNOWN | |
| Application Number | / |
| Filing Date | |
| Art Unit | |
| Examiner Name | |

As the below named Inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original and first Inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

WORLD GLOBE WITH DETAIL DISPLAY

(Title of the Invention)

the specification of which

is attached hereto.

OR

was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby appoint the following agent to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

ALVIN S. BLUM REGISTRATION #30,448

DECLARATION — Utility or Design Patent Application

Direct all correspondence to: Customer Number  OR Correspondence address below

27321

PATENT TRADEMARK OFFICE

Name

Address

Address

City

State

ZIP

Country

954 462 5006

Fax

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR: A petition has been filed for this unsigned Inventor

| | | | |
|---|----------|---------------------------|------|
| Given Name (first and middle (if any)) | ALVIN S. | Family Name or Surname | BLUM |
|---|----------|---------------------------|------|

| | | |
|-------------------------|----------------------|------|
| Inventor's Signature | <i>Alvin S. Blum</i> | Date |
|-------------------------|----------------------|------|

| | | | |
|-----------------|------------------|---------|-----------------|
| Residence: City | FLORIDA State | Country | Citizenship USA |
|-----------------|------------------|---------|-----------------|

Mailing Address 2350 DEL MAR PLACE

Mailing Address

| | | | |
|------|------------------|-----|---------|
| City | FLORIDA State | ZIP | Country |
|------|------------------|-----|---------|

NAME OF SECOND INVENTOR: A petition has been filed for this unsigned Inventor

| | |
|---|---------------------------|
| Given Name (first and middle (if any)) | Family Name or Surname |
|---|---------------------------|

| | |
|-------------------------|------|
| Inventor's Signature | Date |
|-------------------------|------|

| | | | |
|-----------------|-------|---------|-------------|
| Residence: City | State | Country | Citizenship |
|-----------------|-------|---------|-------------|

Mailing Address

Mailing Address

| | | | |
|------|-------|-----|---------|
| City | State | ZIP | Country |
|------|-------|-----|---------|

Additional Inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

Document made available under the Patent Cooperation Treaty (PCT)

International application number: PCT/US04/034289

International filing date: 18 October 2004 (18.10.2004)

Document type: Certified copy of priority document

Document details: Country/Office: US
Number: 10/691,893
Filing date: 23 October 2003 (23.10.2003)

Date of receipt at the International Bureau: 18 November 2004 (18.11.2004)

Remark: Priority document submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b)



World Intellectual Property Organization (WIPO) - Geneva, Switzerland
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